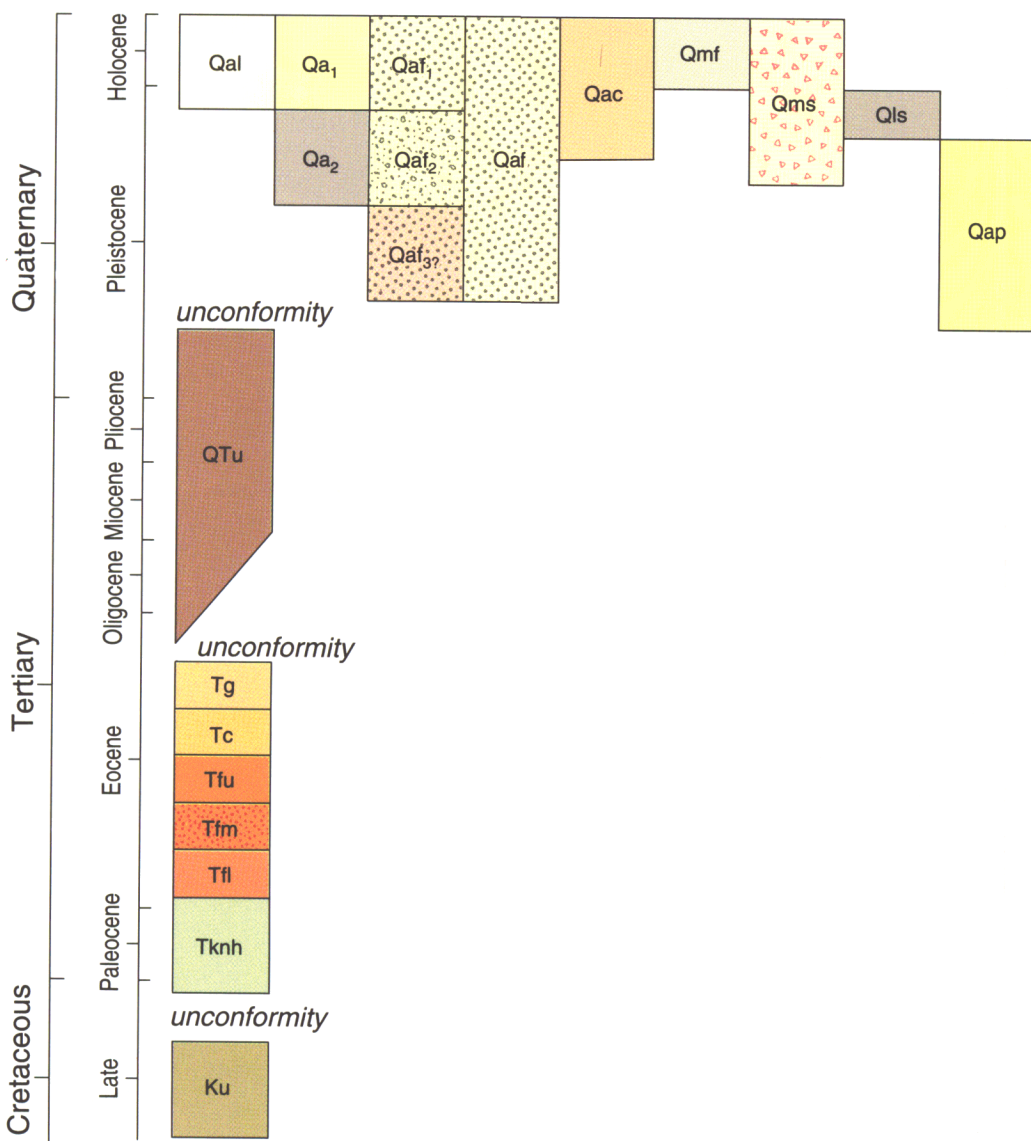


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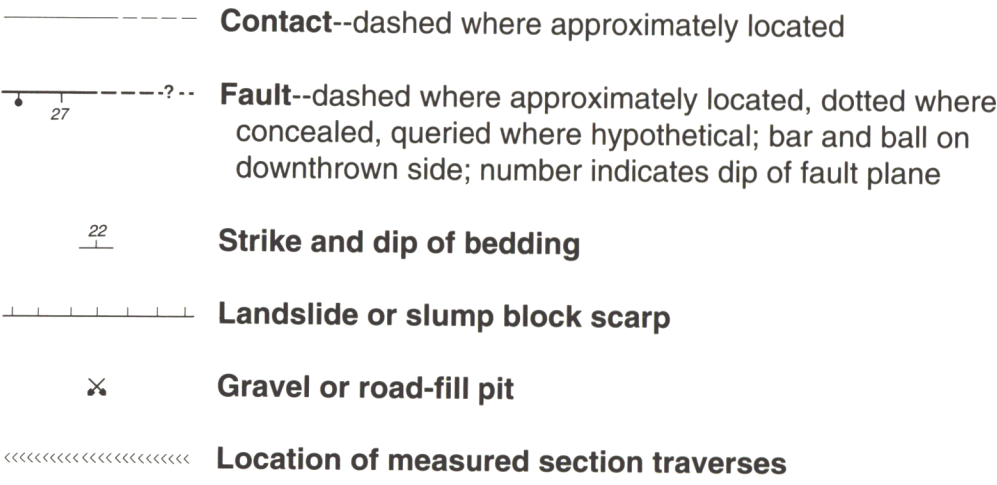
David H Petersen

1997

CORRELATION OF MAP UNITS



MAP SYMBOLS



DESCRIPTION OF MAP UNITS

Qu	Undivided surficial deposits -- <i>Shown only on cross sections.</i>	surface of many deposits are reworked by wind, forming eolian deposits up to 6 feet (2 m) thick.
Qal	Floodplain deposits -- <i>Consisting mainly of fine-grained sediments; gradational with other Quaternary deposits.</i>	
Qa ₁	Younger alluvial deposits -- <i>Moderately sorted, clay- to small boulder-sized sediments; gradational with other Quaternary deposits; deposited in stream channels.</i>	
Qa ₂	Older alluvial deposits -- <i>Moderately sorted, clay- to small boulder-sized sediments; isolated by downcutting; gradational with other Quaternary deposits; deposited in stream channels.</i>	
Qaf	Undifferentiated alluvial-fan deposits -- <i>Shown only on the cross sections.</i>	
Qaf ₁	Younger alluvial-fan deposits -- <i>Poorly to moderately sorted boulders to clay; finer clasts predominate valleyward; sediments were derived locally; gradational with other Quaternary deposits.</i>	
Qaf ₂	Older alluvial-fan deposits -- <i>Dissected by Qaf₁ deposits and composed of poorly to moderately sorted boulders to clay.</i>	
Qaf ₃	Oldest alluvial-fan deposits -- <i>Dissected by Qaf₁ deposits; composed of poorly to moderately sorted boulders to clay which fine valleyward; appear to be higher and more dissected than Qaf₂ deposits.</i>	
Qap	Alluvial pediment-mantle deposits -- <i>Materials composed of boulders to clay; loosely consolidated with calcareous mud; sediments were derived from nearby rock formations, predominately the North Horn and Flagstaff Formations; lies unconformably on underlying formations; 0 to 44+ feet (0-13+ m) thick.</i>	
Qac	Mixed alluvial and colluvial deposits -- <i>Along mountainsides; poorly sorted boulder- to clay-sized clasts; gradational with other Quaternary deposits.</i>	
Qmf	Mass-movement - mudflow and debris-flow deposits -- <i>Very poorly sorted; locally contain blocks many feet across; derived from the North Horn and lower Flagstaff Formations; form hummocky topography.</i>	
Qms	Mass-movement - landslides and slump blocks -- <i>Large blocks of competent North Horn (Tknh) and Flagstaff Formation; lower member (Tfl), middle member (Tfm), upper member (Tfu), rocks that have slumped and rotated where slopes have been oversteepened, mainly along stream beds and major faults.</i>	
Qls	Lake Bonneville sediments -- <i>Alternating layers of loosely consolidated, pale-tan, fine sand and silt; thinly laminated with some cross-stratification; silt increases upward; the</i>	
QTu	Undifferentiated Quaternary and Tertiary deposits -- <i>May include late Eocene to Pliocene sedimentary, volcanic, and volcanoclastic strata, and Pliocene to Pleistocene unconsolidated valley-fill deposits; shown only on the cross sections.</i>	
Tg	Green River Formation -- <i>Predominantly calcareous to dolomitic, greenish-gray mudstone intermixed with thin, locally sandy, pale-tan, micritic limestone and dolomite, some of which contain thin, discontinuous beds of chert; local thin volcanic ash layers occur in mudstones; at least 400 feet (120 m) thick.</i>	
Tc	Colton Formation -- <i>Reddish-brown, with lesser amounts of greenish-gray, calcareous to dolomitic mudstone, intermixed with uncommon thin beds of pale-tan, dolomitic, micritic limestone, and volcanic ash layers; erodes to form a strike valley; 300 to 450 feet (90-135 m) thick.</i>	
Tfu	Upper member of the Flagstaff Formation -- <i>Pale-gray, pale-yellow, pink, and pale-green micritic limestone, changing upward to purplish-red dolomitic and greenish-gray calcareous mud-stone that locally contains gypsum, topped by pale-tan-gray micritic limestone that locally contains chert pods; 250 to 300 feet (75-90 m) thick.</i>	
Tfm	Middle member of the Flagstaff Formation -- <i>Pink-gray to white, soft limestone with minor gray, resistant limestone; capped by resistant, gray, sandy, micritic limestone changing upward to pink, tan, sandy, micritic limestone; both contain minor conglomerate and oolite grains; changes southward to very pale-gray limestone that erodes to a scalloped surface; 175 to 300 feet (50-90 m) thick; thins northward and southward.</i>	
Tfl	Lower member of the Flagstaff Formation -- <i>Pale-tan, pink-tan, gray and olive-tan, micritic, chippy, locally dolomitic limestone containing abundant gastropods, which become less common upwards; has thin sandstone layers at base which thicken southward; about 450 feet (135 m) thick. Gradational with the North Horn Formation.</i>	
Tknh	North Horn Formation -- <i>Intermixed, resistant, brown to gray conglomeratic and calcareous sandstone, and gray to tan, locally carbonaceous mudstone and oncolitic limestone; conglomerate contains abundant gray limestone and white quartzite pebbles; conglomerate and sandstone ledges pinch out laterally, contain cross-bedded sandstone, and have been bioturbated; about 450 feet (135 m) is exposed.</i>	
Ku	Undifferentiated Cretaceous deposits -- <i>Shown only on the cross sections.</i>	

